

FIG. 1

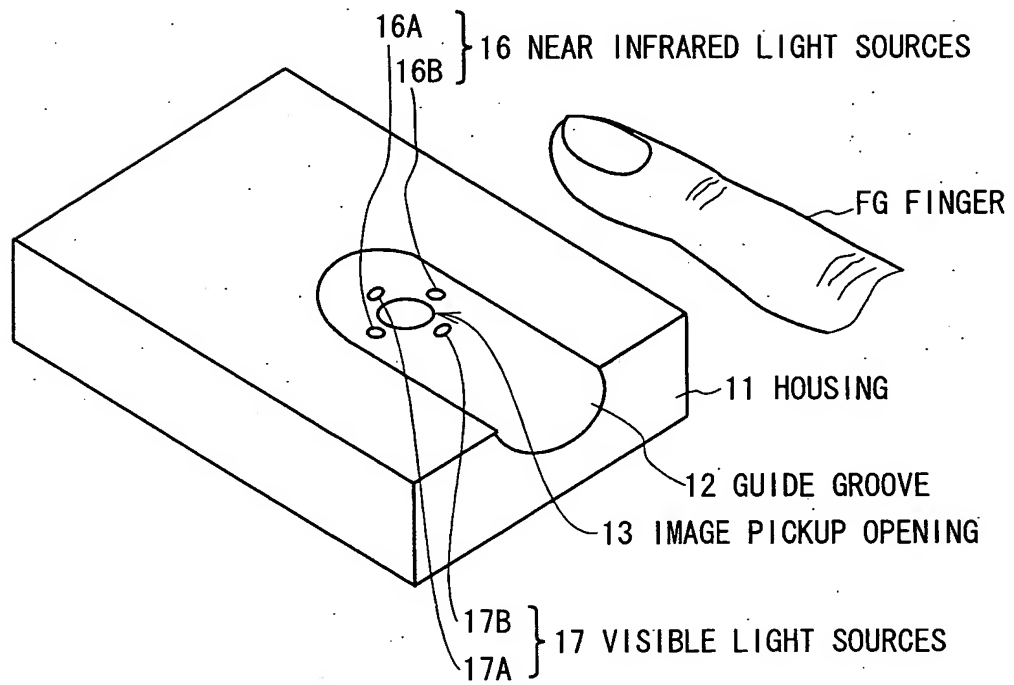


FIG. 2

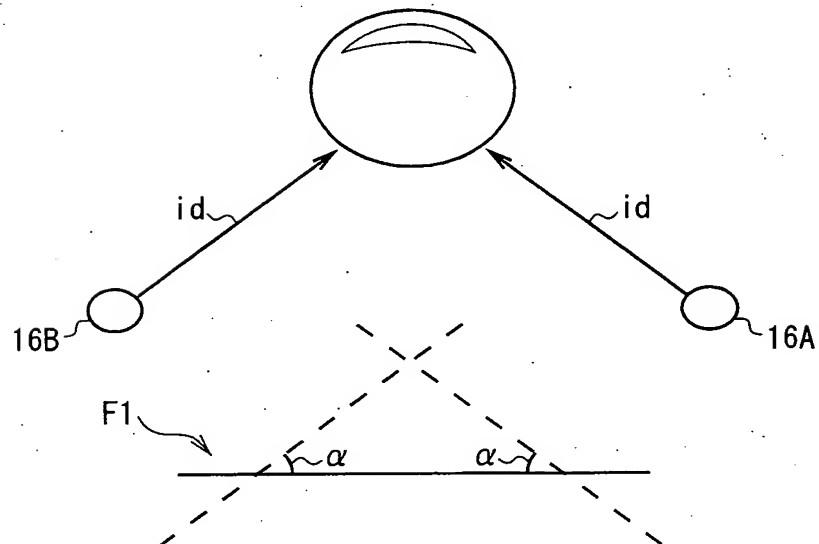


FIG. 3

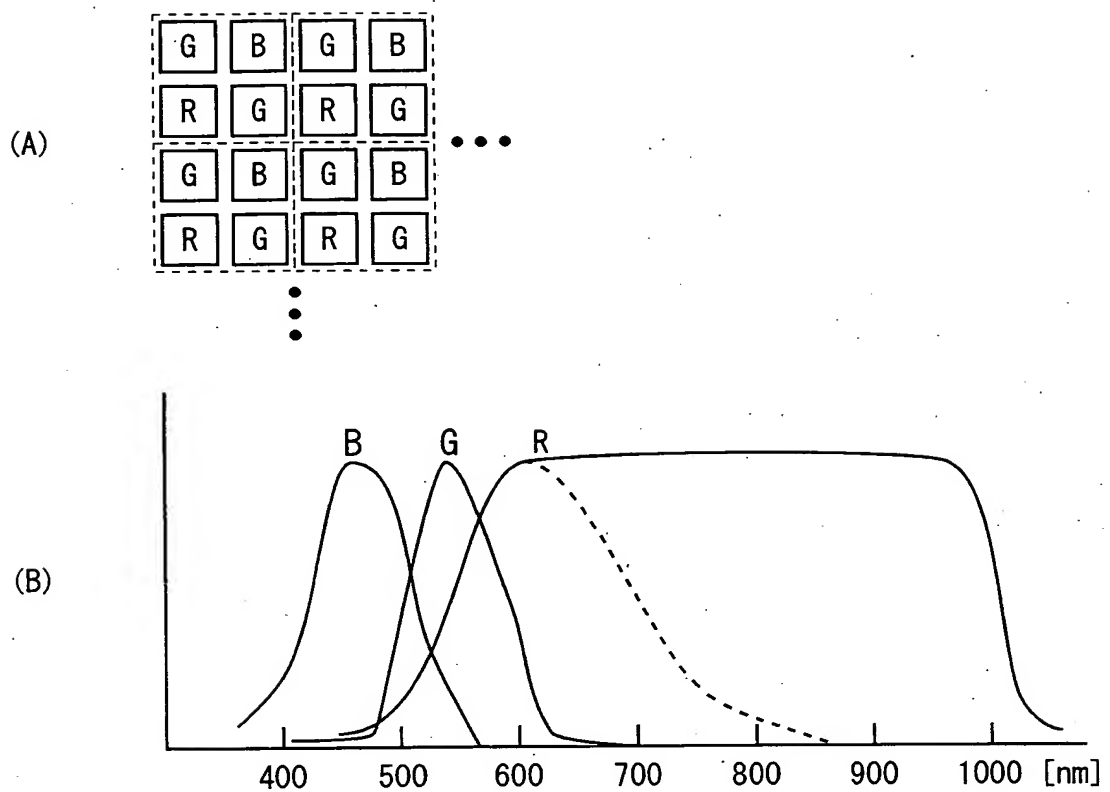


FIG. 4

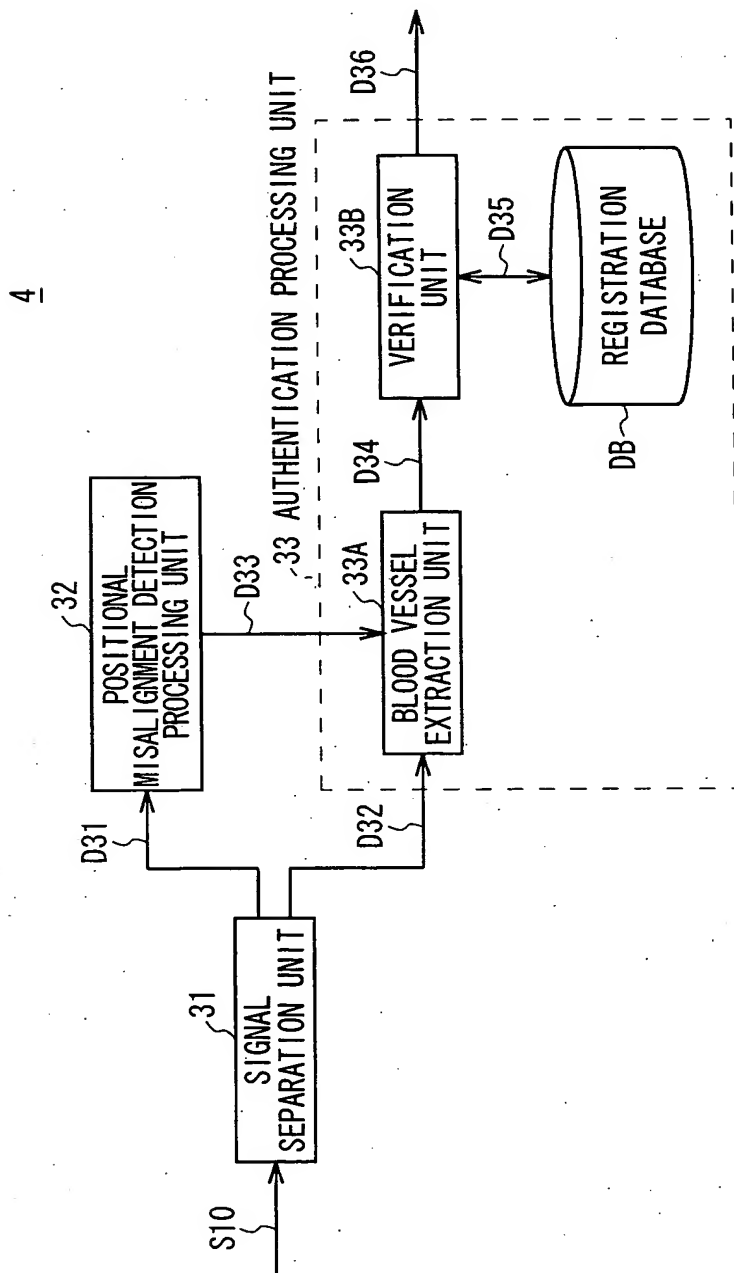


FIG. 5

## EXPLANATION OF REFERENCED NUMERALS

1.....AUTHENTICATION APPARATUS, 2.....HYBRID IMAGE PICKUP UNIT, 3...IMAGE PICKUP CONTROL UNIT, 4.....SIGNAL PROCESSING UNIT, 11.....HOUSING, 12.....GUIDE GROOVE, 13.....IMAGE PICKUP OPENING, 14.....OPENING COVER, 15.....CAMERA UNIT, 16A, 16B..... NEAR INFRARED LIGHT SOURCES, 17A, 17B.....VISIBLE LIGHT SOURCES, 21.....MACROLENS, 22.....FILTER ARRAY, 23.....CCD IMAGE PICKUP ELEMENT, 24.....POLARIZING PLATE, 31... ..SIGNAL SEPARATION UNIT, 32.....POSITIONAL MISALIGNMENT DETECTION PROCESSING UNIT, 33.....AUTHENTICATION PROCESSING UNIT, 33A.....BLOOD VESSEL EXTRACTION UNIT, 33B.....VERIFICATION UNIT, DB.....REGISTRATION DATABASE, id.....NEAR INFRARED LIGHT IRRADIATION DIRECTION, F1.....IMAGE PICKUP SURFACE, S10.....IMAGE PICKUP SIGNAL, D31.....FINGER SURFACE IMAGE DATA, D32.....BLOOD VESSEL IMAGE DATA, D33..... POSITION CORRECTION DATA, D34.....AUTHENTICATION INFORMATION, D35.....REGISTRATION AUTHENTICATION INFORMATION, D36.....DETERMINATION DATA